MSDS for: FRP-310 Revised: 7-Jun-2004

**SECTION 1:** 

CAS NUMBER:

85-68-7

PRODUCT IDENTIFIER: FRP-310 LATEX ADHESIVE FOR FRP

DATE OF PREPARATION: JUNE 7, 2004 PRODUCT USE: ADHESIVE

MANUFACTURED BY: MACCO ADHESIVES

925 EUCLID AVENUE

CLEVELAND, OHIO 44115, U.S.A.

ICI PAINTS (CANADA) 8200 KEELE STREET

CONCORD, ONTARIO L4K 2A5, CANADA

EMERGENCY AND MSDS TELEPHONE NUMBER: 1-800-545-2643

MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT

ICI PAINTS NORTH AMERICA

# **SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT		WT.%
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	ACRYLIC RESIN ACRYLIC RESIN CONFIDENTIAL	10-20
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	LIMESTONE LIMESTONE 1317-65-3	30-40
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	KAOLIN CLAY 1332-58-7	10-20
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	QUARTZ QUARTZ 14808-60-7	0.1-1.0
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	2-PROPANONE ACETONE 67-64-1	1-5
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	WATER WATER 7732-18-5	30-40
CHEMICAL NAME: COMMON NAME:	1,2-BENZENEDICARBOXYLIC ACID, BUTYL PHENYLMETHYL ESTER BUTYL BENZYL PHTHALATE	1-5

#### **SECTION 3: HAZARDS IDENTIFICATION**

PRIMARY ROUTE(S) OF EXPOSURE: INHALATION, SKIN CONTACT, EYE CONTACT,

INGESTION

EFFECTS OF OVEREXPOSURE

INHALATION: IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION

MAY LEAD TO MUCOUS MEMBRANE IRRITATION, FATIGUE,

DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE,

UNCOORDINATION, NAUSEA, VOMITING, ABDOMINAL PAIN, COUGHING, DIFFICULTY WITH SPEECH, CENTRAL NERVOUS SYSTEM DEPRESSION, DIFFICULTY OF BREATHING, BLOOD ABNORMALITIES, LIVER DAMAGE, KIDNEY DAMAGE,

PNEUMOCONIOSIS.

SKIN CONTACT: IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN

CAUSE DERMATITIS, DEFATTING.

EYE CONTACT: IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN

CAUSE CONJUNCTIVITIS, TEARING OF EYES, REDNESS OF EYES.

INGESTION: INGESTION MAY CAUSE MOUTH AND THROAT IRRITATION.

MUCOUS MEMBRANE IRRITATION, NAUSEA, VOMITING, DIARRHEA,

GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

EYE, SKIN, RESPIRATORY DISORDERS, LUNG DISORDERS,

RESPIRATORY DISORDERS

#### **SECTION 4: FIRST-AID MEASURES**

INHALATION: REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED

BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES

EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT

REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED

CLOTHING BEFORE RE-USE.

EYE CONTACT:FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY

UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER

EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.

INGESTION: IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

# **SECTION 5: FIRE-FIGHTING MEASURES**

FLASH POINT (SETA): ABOVE 200F/93C LOWER EXPLOSIVE LIMIT: NOT AVAILABLE

UPPER EXPLOSIVE LIMIT: 13.0 %

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL OR FOAM, WATER FOG, CARBON DIOXIDE

UNUSUAL FIRE AND EXPLOSION HAZARDS

VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK. CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE. MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, ACRYLIC MONOMERS, OXIDES OF CALCIUM

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. EVACUATE ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN PROPER CONTAINER. COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS: SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.

SMALL SPILLS: USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

# **SECTION 7: HANDLING AND STORAGE**

HANDLING AND STORAGE: STORE BELOW 100F (38C), KEEP FROM FREEZING.

OTHER PRECAUTIONS

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME: LIMESTONE CAS NUMBER: 1317-65-3

ACGIH(TWA): 10 MG/M3 OSHA(TWA): 5 MG/M3

COMMON NAME: CLAY CAS NUMBER: 1332-58-7

ACGIH(TWA): 2 MG/M3 OSHA(TWA): 5 MG/M3

COMMON NAME: QUARTZ CAS NUMBER: 14808-60-7

ACGIH(TWA): 0.05MG/M3 OSHA(TWA): 0.1 MG/M3

COMMON NAME: ACETONE CAS NUMBER: 67-64-1

ACGIH(TWA): 500PPM OSHA(TWA): 1000 PPM

ACGIH(STEL): 750PPM

COMMON NAME: BUTYL BENZYL PHTHALATE

CAS NUMBER: 85-68-7

ACGIH(TWA): 5 MG/M3 OSHA(TWA): 5 MG/M3

RESPIRATORY PROTECTION

WHERE RESPIRATORY PROTECTION IS REQUIRED, USE ONLY NIOSH/MSHA APPROVED RESPIRATORS IN ACCORDANCE WITH OSHA STANDARD 29 CFR 1910.134.

**VENTILATION** 

PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS. USE EXPLOSION-PROOF EQUIPMENT.

PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES, IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

VAPOR PRESSURE: NOT AVAILABLE SPECIFIC GRAVITY: 1.436

BOILING RANGE (F/C): 133-698/ 56-370 WEIGHT PER GALLON: 11.96/ 14.36 IMP

APPEARANCE: TAN %VOLATILE BY VOLUME: 56.24 PHYSICAL STATE: PASTE SOLUBLE IN WATER: Y

PH: 9.60

#### **SECTION 10: STABILITY AND REACTIVITY**

UNDER NORMAL CONDITIONS: STABLE (SEE SECTION 5 FIRE FIGHTING MEASURES)

MATERIALS TO AVOID: OXIDIZERS, ACIDS, AMINES, NITRIC ACID,

STYRENE MONOMER.

CONDITIONS TO AVOID: ELEVATED TEMPERATURES, FREEZING, SPARKS,

OPEN FLAME, IGNITION SOURCES

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

COMMON NAME: LIMESTONE CAS NUMBER: 1317-65-3

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 6450.00 MG/KG ORL RAT

COMMON NAME: CLAY
CAS NUMBER: 1332-58-7

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: QUARTZ CAS NUMBER: 14808-60-7

CARCINOGENICITY LISTED BY: NTP YES I ARC YES 1 OSHA NO ACGIH NO

COMMON NAME: ACETONE CAS NUMBER: 67-64-1

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 5800.00 MG/KG ORL RAT LD50: > 9400.00 MG/KG SKN GPG

COMMON NAME: BUTYL BENZYL PHTHALATE

CAS NUMBER: 85-68-7

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 2330.00 MG/KG ORL RAT LD50: 6700.00 MG/KG SKN RAT

#### SUPPLEMENTAL HEALTH INFORMATION

## CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

CARCINOGENICITY: CONTAINS CRYSTALLINE SILICA WHICH IS CONSIDERED A

HAZARD BY INHALATION. IARC HAS CLASSIFIED CRYSTALLINE SILICA AS CARCINOGENIC TO HUMANS (GROUP 1). CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE. THE NATIONAL TOXICOLOGY PROGRAM (NTP) HAS CLASSIFIED CRYSTALLINE SILICA AS A KNOWN HUMAN CARCINOGEN.

REPRODUCTIVE EFFECTS: NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

MUTAGENICITY: NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY: NO TERATOGENIC EFFECTS ARE ANTICIPATED

## **SECTION 12: ECOLOGICAL INFORMATION**

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE

REGULATIONS.AVOID DISCHARGE TO NATURAL WATERS.

#### **SECTION 14: TRANSPORT INFORMATION**

DOT: ADHESIVE

IMDG: NOT AVAILABLE IATA: NOT AVAILABLE TDG: NOT AVAILABLE

## **SECTION 15: REGULATORY INFORMATION**

SARA SARA CERCLA HAZ AIR MARINE 302 313 302.4 POLLUTANT POLTNT

CAS NUMBER: 67-64-1 NO NO YES NO NO

COMMON NAME: ACETONE

CAS NUMBER: 85-68-7 NO NO YES NO

COMMON NAME: BUTYL BENZYL PHTHALATE

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

### **SECTION 16: OTHER INFORMATION**

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.